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Research with intact animals, cells, subcellular components, enzymes and model systems is acceptable if it defines the mechanism of drug action. Studies concerned with antimicrobial and antiviral agents are welcomed, as well as descriptive mathematical models including those involving computer techniques. The use of drugs to elucidate physiological and behavioural mechanisms in the living organism is also acceptable.

In general, papers which record concentrations of drugs and metabolites in body fluids will not be accepted, unless they define biochemical and biophysical mechanisms. The Editors however reserve the right to publish any papers of major interest in the field. The journal publishes the following types of communication:

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(3) **Rapid Communications.** These promote rapid dissemination of timely and significant observations within the scope of the journal. Manuscripts must be submitted in English and will be judged as appropriate for publication as rapid communications on the basis of their immediate importance. They should be written to emphasize clearly the novel aspects of the research. These criteria will be applied strictly. In order to speed up the publication of rapid communications, authors are encouraged to use the special laysheets available from any of the Regional Editors.

(4) **Commentaries** are short commissioned review articles (3000–5000 words in length). They are designed to be editorial statements on selected topics, and should *not* be exhaustive reviews. Primarily, Commentaries are intended to stimulate thought. They can be controversial, and can either focus on areas subject to much activity, or draw attention to relatively neglected fields in which there are both the opportunity and the need for research in biochemical pharmacology. Particularly welcome will be Commentaries in which authors present their personal view on the state of the subject on which they are reporting, and give their view as to where in the near or distant future the subject may be moving. Authors are especially encouraged to take issue with popular dogmas. The Commentary series is edited by Professor C. Norman Gillis.

In order to increase the exchange of information and ideas, the Journal will also publish Comments on a Commentary, in which selected, highly qualified authorities are invited to offer their own observations on Commentary articles, which will be published in the same issue of the Journal, and thus provide some alternative thoughts on important areas of research. For further information see *Biochem Pharmacol* **31,** 2568 (1982).

While the final decision on selection of authors for either Commentaries or Comments on a Commentary will be made at the discretion of the editor, suggestions from readers will be welcome. These should be addressed to: Professor C. N. Gillis, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510.

(5) **Meeting Reports.** The journal is prepared to publish as preliminary communications short, factual two-page summaries of selected papers from small meetings or conferences. The meetings should be those where attendance is by invitation and all papers to be published will be refereed. Organizers who wish to have their meetings published in this way should contact the appropriate Regional Editor.

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It is understood that by publishing a paper in *Biochemical Pharmacology* the authors agree to make freely available to colleagues in academic research any of the cells, nucleic acids, antibodies, etc. that were used in the research reported and that are not available from commercial suppliers.

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ROBERT W. BYRNES and DAVID H. PETERING — 1241 — Inhibition of bleomycin-induced cellular DNA strand scission by 1,10-phenanthroline

S. JOHN GATLEY — 1249 — Activities of the enantiomers of cocaine and some related compounds as substrates and inhibitors of plasma butyryl-cholinesterase

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ALFONSO POMPELLA, ANDREA ROMANI, ANGELO BENEDETTI and MARIO COMPORTI — 1255 — Loss of membrane protein thiols and lipid peroxidation in allyl alcohol hepatotoxicity

SATOSHI NAGAOKA, HIDEKI KAMURO, HIROAKI ODA and AKIRA YOSHIDA — 1259 — Effects of polychlorinated biphenyls on cholesterol and ascorbic acid metabolism in primary cultured rat hepatocytes

ATSUO GOTO, KAORU YAMADA, MASAO ISHII, TSUNEAKI SUGIMOTO and MASANORI YOSHIOKA — 1261 — Immunoreactivity of endogenous digitalis-like factors

SHARIF M. MANSOR, STEPHEN A. WARD and GEOFFREY EDWARDS — 1264 — The effect of malaria infection on antipyrine metabolite formation in the rat

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JAMES W. HARRIS and M. W. ANDERS — R13 — *In vivo* metabolism of the hydrochlorofluorocarbon 1,1-dichloro-1-fluoroethane (HCFC-141b)

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JONATHAN M. BACKER and GEORGE L. KING — 1267 — Regulation of receptor-mediated endocytosis by phorbol esters

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SALVATORE AMOROSO, GIANFRANCO DI RENZO, MAURIZIO TAGLIALATELA, LORELLA M. T. CANZONIERO, EDWARD J. CRAGOE JR and LUCIO ANNUNZIATO — 1279 — Cytoplasmic alkalinization induced by insulin through an activation of Na^+–H^+ antiporter inhibits tyrosine hydroxylase activity in striatal synaptosomes

LOUISE M. NUTTER, ANN-LII CHENG, HSIAO-LING HUNG, RUEY-KUN HSIEH, EMILY O. NGO and TSANG-WU LIU — 1283 — Menadione: spectrum of anticancer activity and effects on nucleotide metabolism in human neoplastic cell lines

ANDREW SUNTERS, JOHN BAER and KENNETH D. BAGSHAWE — 1293 — Cytotoxicity and activation of CB1954 in a human tumour cell line

NISAR A. PAMPORI, ARUN K. AGRAWAL, DAVID J. WAXMAN and BERNARD H. SHAPIRO — 1299 — Differential effects of neonatally administered glutamate on the ultradian pattern of circulating growth hormone regulating expression of sex-dependent forms of cytochrome P450

VIJAYALAKSHMI RAVINDRANATH and MICHAEL R. BOYD — 1311 — Effect of modulators of glutathione synthesis on the hepatotoxicity of 2-methylfuran

NICHOLAS E. PREECE, JEREMY K. NICHOLSON and JOHN A. TIMBRELL — 1319 — Identification of novel hydrazine metabolites by ^{15}N-NMR

STYLIANI H. VINCENT, REGINA W. WANG, BINDHU V. KARANAM, MICHAEL KLIMKO, RAUL ALVARO and SHUET-HING LEE CHIU — 1325 Effects of the immunosuppressant FK-506 and its analog FK-520 on hepatic and renal cytochrome P450 mixed-function oxidase

RAOUL CARUBELLI, STEVEN A. GRAHAM, PAUL B. MCCAY and FRED K. FRIEDMAN — 1331 Prevention of 2-acetylaminofluorene-induced loss of nuclear envelope cytochrome P450 by the simultaneous administration of 3-methylcholanthrene

RANDAL A. SKIDGEL, HERBERT L. JACKMAN and ERVIN G. ERDÖS — 1335 Metabolism of substance P and bradykinin by human neutrophils

O. RAATIKAINEN, R. A. KAUPPINEN, H. KOMULAINEN, H. TAIPALE, T. PIRTTILÄ and J. TUOMISTO — 1345 Polyene antibiotics increase the ionic permeability of synaptosomal plasma membranes

RAYMOND S. MARSHALL, MALCOLM C. PATERSON and A. MICHAEL RAUTH — 1351 Studies on the mechanism of resistance to mitomycin C and porfiromycin in a human cell strain derived from a cancer-prone individual

JOHN B. LLOYD, HAZEL CABLE and CATHERINE RICE-EVANS — 1361 Evidence that desferrioxamine cannot enter cells by passive diffusion

CAROL A. ROUZER, DENIS RIENDEAU, JEAN-PIERRE FALGUEYRET, CHEUK K. LAU and MICHAEL J. GRESSER — 1365 Inhibition of human leukocyte 5-lipoxygenase by a 4-hydroxybenzofuran, L-656,224. Evidence for enzyme reduction and inhibitor degradation

SIMON COLLIER and PETER GHOSH — 1375 Comparison of the effects of non-steroidal anti-inflammatory drugs (NSAIDs) on proteoglycan synthesis by articular cartilage explant and chondrocyte monolayer cultures

MICHAEL D. TAYLOR, MARIA L. DE CEBALLOS, PETER JENNER and C. DAVID MARSDEN — 1385 Acute effects of D-1 and D-2 dopamine receptor agonist and antagonist drugs on basal ganglia [Met^5]- and [Leu^5]-enkephalin and neurotensin content in the rat

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AHMED KAMAL, ADARI B. RAO and MADDAMSETTY V. RAO — 1393 Stereoselective metabolism of 3-isopropyl-5-(1-naphthoxymethyl)oxazolidine, a prodrug of propranolol

DIANE LACE, PETER GACESA and ANTHONY H. OLAVESEN — 1395 The fate of intravenously administered biotin-labelled hyaluronidase in the rat

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TERRENCE R. BURKE, JR., ZHEN-HONG LI, JOSEPH B. BOLEN, MRUNAL CHAPEKAR, YU GANG, ROBERT I. GLAZER, KENNER C. RICE and VICTOR E. MARQUEZ — R17 Examination of the possible mediation of antineoplastic effects of opiates through the inhibition of tyrosine-specific protein kinases

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SYLVIE PONCHAUT, JEAN PIERRE DRAYE, KEITH VEITCH and FRANCOIS VAN HOOF — 1419 Influence of chronic administration of valproate on ultrastructure and enzyme content of peroxisomes in rat liver and kidney. Oxidation of valproate by liver peroxisomes

Glenn S. Baldew, Johannes G. J. Mol, Frans J. J. de Kanter, Ben van Baar, Jeroen J. M. de Goeij and Nico P. E. Vermeulen	1429	The mechanism of interaction between cisplatin and selenite
Wu Song, William M. Pierce, Jr., Russell A. Prough and Richard N. Redinger	1439	Characteristics of cholesterol 7α-hydroxylase and 7α-hydroxycholesterol hydroxylase activities of rodent liver
Breda M. Twomey, Karina Clay and M. Maureen Dale	1449	The protein kinase C inhibitor, K252a, inhibits superoxide production in human neutrophils activated by both PIP_2-dependent and -independent mechanisms
Avner Ramu, Nili Ramu and Luis M. Rosario	1455	Circumvention of multidrug-resistance in P388 cells is associated with a rise in the cellular content of phosphatidylcholine
H. Ginsburg and W. D. Stein	1463	Kinetic modelling of chloroquine uptake by malaria-infected erythrocytes. Assessment of the factors that may determine drug resistance
Rachna Bhatnagar, Hussein Abou-Issa, Robert W. Curley, Jr., Antoinette Koolemans-Beynen, Melvin L. Moeschberger and Thomas E. Webb	1471	Growth suppression of human breast carcinoma cells in culture by *N*-(4-hydroxyphenyl)retinamide and its glucuronide and through synergism with glucarate
Rafael Moreno-Sánchez, Barbara A. Hogue, Concepción Bravo, Amy H. Newman, Anthony S. Basile and Peter K. Chiang	1479	Inhibition of substrate oxidation in mitochondria by the peripheral-type benzodiazepine receptor ligand AHN 086
Anthony J. Kettle and Christine C. Winterbourn	1485	Mechanism of inhibition of myeloperoxidase by anti-inflammatory drugs
Per Sjöberg, Börje Egestad, Eva Klasson-Wehler and Jan Gustafsson	1493	Glucuronidation of mono(2-ethylhexyl)phthalate. Some enzyme characteristics and inhibition by bilirubin
Angelo Moretto, Eugenio Capodicasa, Maja Peraica and Marcello Lotti	1497	Age sensitivity to organophosphate-induced delayed polyneuropathy. Biochemical and toxicological studies in developing chicks
Valerie M. Morrison, Alan K. Burnett and John A. Craft	1505	Metabolism of 7,12-dimethylbenz[*a*]anthracene in hepatic microsomal membranes from rats treated with isoenzyme-selective inducers of cytochromes P450
Franz J. Roos, Thomas Zysset and Jürg Reichen	1513	Differential effect of biliary and micronodular cirrhosis on oxidative drug metabolism. *In vivo–in vitro* correlations of dextromethorphan metabolism in rat models
Signe Alexandra Barth, Gerhard Inselmann, Rainer Engemann and Hugo Thaddäus Heidemann	1521	Influences of *Ginkgo biloba* on cyclosporin A induced lipid peroxidation in human liver microsomes in comparison to vitamin E, glutathione and *N*-acetylcysteine

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Hazel M. Scott, Michael W. H. Coughtrie and Ann Burchell	1529	Steroid sulphates inhibit the rat hepatic microsomal glucose-6-phosphatase system
Masataka Yoshino, Chikashi Yamamoto, Keiko Murakami, Yoshinao Katsumata and Shigeo Mori	1532	Effect of Ca^{2+}-entry blocker on the stimulation of aerobic metabolism in rats acclimatized to high altitude hypoxia

LINDA LIU, YESHAYAHU KATZ, RONIT WEIZMAN, BENO ROSENBERG, GAVRIL W. PASTERNAK and MOSHE GAVISH — 1534 Interactions of chloroquine with benzodiazepine, γ-aminobutyric acid and opiate receptors

H. SAFAYHI, T. MACK and H. P. T. AMMON — 1536 Protection by boswellic acids against galactosamine/endotoxin-induced hepatitis in mice

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DAPHNE ATLAS — 1541 Clonidine-displacing substance (CDS) and its putative imidazoline receptor. New leads for further divergence of α_2-adrenergic receptor activity

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TAIZO HIJIOKA NOBUHIRO SATO, TAKAKATSU MATSUMURA, HARUMASA YOSHIHARA, YOSHIYUKI TAKEI, HIROYUKI FUKUI, MASAHIDE OSHITA, SUNAO KAWANO and TAKENOBU KAMADA — 1551 Ethanol-induced disturbance of hepatic microcirculation and hepatic hypoxia

GEOFFREY MORRIS, JEHANGIR S. MISTRY, JITESH P. JANI, SAID M. SEBTI and JOHN S. LAZO — 1559 Cysteine proteinase inhibitors and bleomycin-sensitive and -resistant cells

STEVEN B. ABRAMSON, JOANNA LESZCZYNSKA-PIZIAK, KATHLEEN HAINES and JOAN REIBMAN — 1567 Non-steroidal anti-inflammatory drugs: effects on a GTP binding protein within the neutrophil plasma membrane

HERNAN SPEISKY, BRUCE K. CASSELS, EDUARDO A. LISSI and LUIS A. VIDELA — 1575 Antioxidant properties of the alkaloid boldine in systems undergoing lipid peroxidation and enzyme inactivation

RONALD LINDAHL and DENNIS R. PETERSEN — 1583 Lipid aldehyde oxidation as a physiological role for Class 3 aldehyde dehydrogenases

CATHERINE A. FENERTY and W. EDWARD LINDUP — 1589 Effect of β-carboline derivatives on the binding of L-tryptophan and diazepam to bovine and human albumin

EDMUND MASER and KARL J. NETTER — 1595 Reductive metabolism of metyrapone by a quercitrin-sensitive ketone reductase in mouse liver cytosol

ANNE-MARIE KISSMEYER and LISE BINDERUP — 1601 Caicipotriol (MC 903): pharmacokinetics in rats and biological activities of metabolites. A comparative study with $1,25(OH)_2D_3$

SASCHA FLOHÉ, PETER C. HEINRICH, JOHANNES SCHNEIDER, ALBRECHT WENDEL and LEOPOLD FLOHÉ — 1607 Time course of IL-6 and TNFα release during endotoxin-induced endotoxin tolerance in rats

JOHN G. NIEDZWICKI and DARRELL R. ABERNETHY — 1615 Structure–activity relationship of ligands of human plasma adenosine deaminase$_2$

DAVID E. MOODY, KAREN A. MONTGOMERY, MOHAMED B. A. ASHOUR and BRUCE D. HAMMOCK — 1625 Effects of environmentally encountered epoxides on mouse liver epoxide-metabolizing enzymes

P. CHATELAIN and R. BRASSEUR — 1639 A conformational analysis study of the interaction of amiodarone and cholesterol with lysophosphatidylcholine

M. V. M. LAFLEUR, E. J. WESTMIJZE, O. J. VISSER, N. WAGENAAR, R. SOETEKOUW, H. LOMAN and J. RETÈL — 1649 Interaction of RSU 1069 and 1137 with DNA *in vitro*. Biological implications and mechanistic aspects

E. JACQZ-AIGRAIN, M. GUEGUEN, U. M. ZANGER, I. ROBIEUX and F. ALVAREZ 1657 Cytochrome P450IID subfamily in non-human primates. Catalytical and immunological characterization

JAN H. T. M. PLOEMEN, BEN VAN OMMEN and PETER J. VAN BLADEREN 1665 Irreversible inhibition of human glutathione *S*-transferase isoenzymes by tetrachloro-1,4-benzoquinone and its glutathione conjugate

R. M. LINDSAY, W. R. FOX, J. D. BATY and R. G. WILLIS 1671 *In vitro* studies on the deacetylation–reacetylation of arylamides and the transacetylation of arylamines by human and rat whole blood

KENJI HASHIMOTO and TSUYOSHI GOROMARU 1679 High-affinity [^{3}H]6-nitroquipazine binding to the 5-hydroxytryptamine transport system in rat lung

STEVEN R. MYERS and JAMES W. FLESHER 1683 Bioalkylation of benz[*a*]anthracene, 7-methylbenz[*a*]anthracene, and 12-methylbenz[*a*]anthracene in rat lung cytosol preparations

MAX T. BAKER, MARIA T. VASQUEZ and CHAO-KUO CHIANG 1691 Evidence for the stability and cytochrome P450 specificity of the phenobarbital-induced reductive halothane–cytochrome P450 complex formed in rat hepatic microsomes

MARVIN J. TURNER III, CHARLES E. FIELDS and DAVID B. EVERMAN 1701 Evidence for superoxide formation during hepatic metabolism of tamoxifen

SHARIF M. MANSOR, GEOFFREY EDWARDS, PHILLIP J. ROBERTS and STEPHEN A. WARD 1707 The effect of malaria infection on paracetamol disposition in the rat

PAUL S. WRIGHT, TIMOTHY L. BYERS, DOREEN E. CROSS-DOERSEN, PETER P. MCCANN and ALAN J. BITONTI 1713 Irreversible inhibition of *S*-adenosylmethionine decarboxylase in *Plasmodium falciparum*-infected erythrocytes: growth inhibition *in vitro*

PRAFULLA RAVAL, PATRICK L. IVERSEN and EDWARD BRESNICK 1719 Induction of cytochromes P450IA1 and P450IA2 as determined by solution hybridization

YASUHIRO HAYASHI, SATOMI HIRAI, MANABU NEGISHI, TADAYOSHI OKUMURA and ATSUSHI ICHIKAWA 1725 Desensitization by glycyrrhetinic acid of other stimulatory substance-induced increases in intracellular calcium in a variety of cell types

EIMEAR M. O'BRIEN, KEITH F. TIPTON, MARGHERITA STROLIN BENEDETTI, ALBERTO BONSIGNORI, PIETRO MARRARI and PHILIPPE DOSTERT 1731 Is the oxidation of milacemide by monoamine oxidase a major factor in its anticonvulsant actions?

ANNA V. DELIGANIS, PAMELA A. PIERCE and STEPHEN J. PEROUTKA 1739 Differential interactions of dimethyltryptamine (DMT) with 5-HT_{1A} and 5-HT_2 receptors

HONG LUO and DARRELL D. FANESTIL 1745 Inhibition of binding of [^{3}H]metolazone to rat kidney membrane by stilbene disulfonates

DIETER SCHRENK, IRIS EISENMANN-TAPPE, ROLF GEBHARDT, DORIS MAYER, MOHAMED EL MOUELHI, ELKE RÖHRDANZ, PETER MÜNZEL and KARL WALTER BOCK 1751 Drug metabolizing enzyme activities in rat liver epithelial cell lines, hepatocytes and bile duct cells

PIERRE-OLIVIER PLASMAN, PHILIPPE LEBRUN, EDWARD J. CRAGOE JR and ANDRE HERCHUELZ 1759 Inhibition of Na/Ca exchange in pancreatic islet cells by 3′,4′-dichlorobenzamil

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KONSTANTIN GRANCHAROV, JORDANKA MLADENOVA and EVGENY GOLOVINSKY 1769 Inhibition of uridine phosphorylase by some pyrimidine derivatives

HANS J. SCHÖN, KARL KREMSER, CHRISTIANE PRAGER and ROBERT KRAMAR — 1773 — Enhancement of NAD-linked isocitrate dehydrogenase activity in rat liver by clofibrate feeding

KATHLEEN M. KNIGHTS, TINA F. ADDINALL and BENJAMIN J. ROBERTS — 1775 — Enhanced chiral inversion of *R*-ibuprofen in liver from rats treated with clofibric acid

FERAYDOON NIROOMAND, ALEXANDER MÜLSCH and EYCKE BÖHME — 1777 — Thiol-independent stimulation of soluble guanylate cyclase by NO-containing compounds

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RAM GANAPATHI, NARAYANA KAMATH, ANDREAS CONSTANTINOU, DALE GRABOWSKI, JEANNE FORD and AUSTIN ANDERSON — R21 — Effect of the calmodulin inhibitor trifluoperazine on phosphorylation of P-glycoprotein and topoisomerase II: relationship to modulation of subcellular distribution, DNA damage and cytotoxicity of doxorubicin in multi-drug resistant L1210 mouse leukemia cells

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PATRIK RORSMAN, FRANCES M. ASHCROFT and PER-OLOF BERGGREN — 1783 — Regulation of glucagon release from pancreatic A-cells

Research Papers

A. BZOWSKA, E. KULIKOWSKA, D. SHUGAR, CHEN BING-YI, B. LINDBORG and N. G. JOHANSSON — 1791 — Acyclonucleoside analogue inhibitors of mammalian purine nucleoside phosphorylase

BERNHARD BRÜNE, BRIGITTE DIEWALD and VOLKER ULLRICH — 1805 — Ebselen affects calcium homeostasis in human platelets

CHANTAL GLEIZES, CLAUDINE EECKHOUTTE, THIERRY PINEAU, MICHEL ALVINERIE and PIERRE GALTIER — 1813 — Inducing effect of oxfendazole on cytochrome P450IA2 in rabbit liver. Consequences on cytochrome P450 dependent monooxygenases

ERIK DE CLERCQ, JUNICHI MURASE and VICTOR E. MARQUEZ — 1821 — Broad-spectrum antiviral and cytocidal activity of cyclopentenylcytosine, a carbocyclic nucleoside targeted at CTP synthetase

MARISABEL MOURELLE, DENISE BEALES and ANDRE E. M. MCLEAN — 1831 — Prevention of paracetamol-induced liver injury by fructose

MARY C. O'SULLIVAN, BERNARD T. GOLDING, LEWIS L. SMITH and IAN WYATT — 1839 — Molecular features necessary for the uptake of diamines and related compounds by the polyamine receptor of rat lung slices

JEFFREY CUMMINGS, NEVILLE WILLMOTT, ELAINE MARLEY and JOHN SMYTH — 1849 — Covalent coupling of doxorubicin in protein microspheres is a major determinant of tumour drug disposition

PAUL S. WRIGHT, DOREEN E. CROSS-DOERSEN, KENDRA K. SCHROEDER, TERRY L. BOWLIN, PETER P. MCCANN and ALAN J. BITONTI — 1855 — Disruption of *Plasmodium falciparum*-infected erythrocyte cytoadherence to human melanoma cells with inhibitors of glycoprotein processing

ANGELIKA BOERSCH, BRIAN A. CALLINGHAM, FRED LEMBECK and DENNIS F. SHARMAN — 1863 — Enzymic oxidation of capsaicin

MARY C. ANDERSON, PETER C. WALDMEIER and KEITH F. TIPTON — 1871 — The inhibition of monoamine oxidase by brofaromine

TOAN D. NGUYEN, ANDREW T. CANADA, GREGORY G. HEINTZ, THOMAS W. GETTYS and JONATHAN A. COHN	1879	Stimulation of secretion by the T_{84} colonic epithelial cell line with dietary flavonols
GEORGE C. DAHER, FARDOS N. M. NAGUIB, MAHMOUD H. EL KOUNI, RUIWEN ZHANG, SENG J. SOONG and ROBERT B. DIASIO	1887	Inhibition of fluoropyrimidine catabolism by benzyloxybenzyluracil. Possible relevance to regional chemotherapy
EMANUELE ALBANO, ALDO TOMASI, JAN-OLOV PERSSON, YLVA TERELIUS, LUCIA GORIA-GATTI, MAGNUS INGELMAN-SUNDBERG and MARIO U. DIANZANI	1895	Role of ethanol-inducible cytochrome P450 (P450IIE1) in catalysing the free radical activation of aliphatic alcohols
MARTIN POOT, ARMIN SCHUSTER and HOLGER HOEHN	1903	Cytostatic synergism between bromodeoxyuridine, bleomycin, cisplatin and chlorambucil demonstrated by a sensitive cell kinetic assay
FRANÇOISE JACOLOT, ISABELLE SIMON, YVONNE DREANO, PHILIPPE BEAUNE, CHRISTIAN RICHE and FRANÇOIS BERTHOU	1911	Identification of the cytochrome P450 IIIA family as the enzymes involved in the N-demethylation of tamoxifen in human liver microsomes
ROMAN RUDKOWSKI, JOHN B. ZIEGLER, GARRY G. GRAHAM and G. DAVID CHAMPION	1921	Auranofin inhibits the activation pathways of polymorphonuclear leukocytes at multiple sites
TIMOTHY ZACHAREWSKI, MARK HARRIS and STEPHEN SAFE	1931	Evidence for the mechanism of action of the 2,3,7,8-tetrachlorodibenzo-*p*-dioxin-mediated decrease of nuclear estrogen receptor levels in wild-type and mutant mouse Hepa 1c1c7 cells
PEIYUAN LIN, GLORIA A. WIGGAN, ANN F. WELTON and ALASDAIR M. GILFILLAN	1941	Differential effects of propranolol on the IgE-dependent, or calcium ionophore-stimulated, phosphoinositidè hydrolysis and calcium mobilization in a mast (RBL 2H3) cell line
YOICHI MATSUURA, EIICHI KOTANI, TOSHIHIRO IIO, TERUO FUKUDA, SEISHO TOBINAGA, TAKEMI YOSHIDA and YUKIO KUROIWA	1949	Structure–activity relationships in the induction of hepatic microsomal cytochrome P450 by clotrimazole and its structurally related compounds in rats
YOSHINORI OHTSUKA and OWEN W. GRIFFITH	1957	L-Carnitine protection in ammonia intoxication. Effect of aminocarnitine on carnitine-dependent metabolism and acute ammonia toxicity
L. STOLL and W. E. MÜLLER	1963	*In vitro* down-regulation predicts agonist efficacy at central muscarinic cholinergic receptors
DOMINIQUE LEFEVRE, JEAN-FRANÇOIS RIOU, JEAN CHARLES AHOMADEGBE, DANYI ZHOU, JEAN BENARD and GUY RIOU	1967	Study of molecular markers of resistance to *m*-AMSA in a human breast cancer cell line. Decrease of topoisomerase II and increase of both topoisomerase I and acidic glutathione *S* transferase
R. RODRIGUEZ, A. TOLEDO, J. SABRIÁ, J. RODRIGUEZ and I. BLANCO	1981	A comparative study of histamine and K^+ effects on $(Ca^{2+}$–$Mg^{2+})$-ATPase activity in synaptosomes
JOSÉ CASTRO, JOSEFA P. CORTÉS and MANUEL GUZMÁN	1987	Properties of the mitochondrial membrane and carnitine palmitoyltransferase I in the periportal and the perivenous zone of the liver. Effects of chronic ethanol feeding
PIETER J. BOOGAARD, EDWIN L. M. LEMPERS, GERARD J. MULDER and JOHN H. N. MEERMAN	1997	4-Methylthiobenzoic acid reduces cisplatin nephrotoxicity in rats without compromising anti-tumour activity

ELISABETH SÉVILLA, ANNICK VALETTE, MARGUERITE GASTALDI, JEAN BOYER and ALAIN VÉRINE — 2005 — Effect of ethanol intake on lipoprotein lipase activity in rat heart

DENNIS MACKAY, MOHAMMAD R. PANJEHSHAHIN and CHRISTOPHER J. BOWMER — 2011 — Analysis of the binding of fluorescent ligands to soluble proteins. Use of simultaneous non-linear least squares regression to obtain estimates of binding parameters

SUSAN DEAM and GEORGE H. ELDER — 2019 — Uroporphyria produced in mice by iron and 5-amino-levulinic acid

DAVID TOORCHEN and RICHARD L. MILLER — 2023 — Purification and characterization, of 5′-deoxy-5′-methyl-thioadenosine (MTA) phosphorylase from human liver

JAMES W. DARNOWSKI, ROBERT E. HANDSCHUMACHER, ROSEMARY A. WIEGAND, FREDERICK A. GOULETTE and PAUL CALABRESI — 2031 — Tissue-specific expansion of uridine pools in mice. Effects of benzylacyclouridine, dipyridamole and exogenous uridine

Short Communications

SOIZIC JULLIEN, ELISABETTA CAPUOZZO, COSTANTINO SALERNO and CARLO CRIFÒ — 2037 — Effects of polyene antibiotics on the activation of human polymorphonuclear leukocytes

RAYMOND G. BOOTH, ROSS J. BALDESSARINI and ALEXANDER CAMPBELL — 2040 — Inhibition of dopamine synthesis in rat striatal minces: evidence of dopamine autoreceptor supersensitivity to *S*(+)- but not *R*(−)-*N*-*n*-propylnorapomorphine after pretreatment with fluphenazine

GERTRUD PUU, MONA KOCH and ELISABET ARTURSSON — 2043 — Ketamine enantiomers and acetylcholinesterase

M. P. HARRISON, D. V. JONES, R. J. PICKFORD and I. D. WILSON — 2045 — β-Hydroxybutyrate: a urinary marker of imipenem induced nephrotoxicity in the cynomolgus monkey detected by high field ^{1}H NMR spectroscopy

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